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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Vikram Chalana et al. Attorney Docket No. DXUC-1-1020
Serial No.: 10/701,955 Group Art Unit: —
Filing Date: November 5, 2003 Examiner: —
Title: 3D ULTRASOUND-BASED INSTRUMENT FOR NON-INVASIVE
MEASUREMENT OF AMNIOTIC FLUID VOLUME

TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT TO THE COMMISSIONER OF PATENTS:

Pursuant to 37 C.F.R. § 1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information related to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

Copies of non-patent references listed on the attached Form PTO-1449 are enclosed herewith, along with a return receipt postcard.

Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

Application Number	10/701,955
Filing Date	November 5, 2003
First Named Inventor	Vikram Chalana
Art Unit	3732
Examiner Name	--
Attorney Docket No.	DXUC-1-1020

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		GROVER et al., "Three-Dimensional Amniotic Fluid Volume," <i>Obstetrics & Gynecology</i> (December 1997) 1007-1010, 90:6; Elsevier Science, Inc., University of California Los Angeles	
		MANN et al., "Novel Technique for Assessing Amniotic Fluid Volume: Use of a Three-Dimensional Bladder Scanner," <i>J. of Maternal Fetal Med.</i> (2000) 9:308-310, Torrance, California	
		ROSS, "Amniotic Fluid Volume Determination," <i>Letter to the Editor</i> , 169 (2:1), <i>Am. J. Obstet. Gynecol.</i> , August 1993.	
		CHENG et al., "Boundary Extraction Method for Three Dimensional Ultrasonic Echo Imaging Using Fuzzy Reasoning and Relaxation Techniques," (1994) 1610-1614 IEEE, Tokyo, Japan	
		RUTHERFORD et al., "The Four-Quadrant Assessment of Amniotic Fluid Volume: An Adjunct to Antepartum Fetal Heart Rate Testing," (1987) 353-356 70:3 (Part 1) <i>Obstetrics & Gynecology</i>	
		CHAMBERLAIN et al., "Ultrasound Evaluation of Amniotic Fluid Vol.; II. The Relationship of Increased Amniotic Fluid Vol. to Perinatal Outcome," (10/1/84) 250-254 <i>Am. J. Ob. Gyn.</i> , Canada	
		PHELAN et al., "Amniotic Fluid Volume Assessment with the Four-Quadrant Technique at 36-42 Weeks' Gestation," (July 1987) 540-42, 32:7 Dept. Ob. Gyn., UCLA, California	
		CHAMBERLAIN, Paul, "Amniotic Fluid Volume: Ultrasound Assessment and Clinical Significance," (October, 1985) 163-167, Seminars in Perinatology 9:4, Grune & Stratton, Inc., Galway, Ireland	
		CROWLEY et al., "The Value of Ultrasound Measurement of Amniotic Fluid Volume In The Management of Prolonged Pregnancies," (May 1984) 444-448 Vol. 91, British Journal of Obstetrics and Gynaecology	
		STANGENBERG et al., "Amniotic Fluid Volumes In Pregnant Diabetics During the Last Trimester: A Comparative Study Using Ultrasound and PAH Dilution," <i>Acta Obstet Gynecol Scand</i> (1982) 61:313-316, Stockholm, Sweden	
		MANNING et al., "Qualitative Amniotic Fluid Volume Determination By Ultrasound: Antepartum Detection of Intrauterine Growth Retardation," Thirty-Sixth Annual Meeting of The Society of Obstetricians and Gynaecologists of Canada, Jasper, Alberta, Canada, June 10-14, 1980. (February 1, 1981), 254-258, <i>Am. J. Obstet. Gynecol.</i> , C.V. Mosby Co., Canada	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. BOX 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. BOX 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number

10/701,955

Filing Date

November 5, 2003

First Named Inventor

Vikram Chalana

Art Unit

3732

Examiner Name

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Sheet 2 of 4

Attorney Docket No.

DXUC-1-1020

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		WEISSMAN et al, "Sonographic Measurement of Amniotic Fluid Volume in the First Trimester of Pregnancy," (June 23, 1996) American Institute of Ultrasound in Medicine, <i>J Ultrasound Med.</i> , 15:771-774	
		SAGIV et al, "Application of a Semiautomatic Boundary Detection Algorithm for the Assessment of Amniotic Fluid Quantity from Ultrasound Images," (1999) <i>Ultrasound in Med. & Biol.</i> , 25:4 515-526 World Federation for Ultrasound in Medicine, Elsevier Science, Inc., Tel Aviv University, Israel	
		MAGANN et al., "Measurement of Amniotic Fluid Volume: Accuracy of Ultrasonography Techniques," (December 1992) 1533-1537, <i>Am. J. Obstet. Gynecol.</i> , Jackson, Mississippi, and Augusta, Georgia	
		MYLES et al., "Four-Quadrant Assessment of Amniotic Fluid Volume: Distribution's Role in Predicting Fetal Outcome," (1992) 769-774, 80:5, <i>Ob. & Gyn.</i> , The American College of Obstetricians and Gynecologists.	
		MOORE, MD, Thomas R., "Superiority of the Four-Quadrant Sum Over the Single-Deepest-Pocket Technique in Ultrasonographic Identification of Abnormal Amniotic Fluid Vols.," 762-767, 163:3, U. of California, San Diego	
		JENG et al., "Amniotic Fluid Index Measurement with the Four-Quadrant Technique During Pregnancy," (1990) 35:7, 674-677, <i>J. Reproductive Medicine</i> , The Journal of Reproductive Medicine, Inc.	
		SCHIFF et al., "Standardized Measurement of Amniotic Fluid Volume by Correlation of Sonography With Dye Dilution Technique," (1990) 44-46, 76:1 Department of Obstetrics and Gynecology; Tel Aviv, Israel	
		GRAMELLINI et al., "Sonographic Assessment of Amniotic Fluid Volume Between 11 and 24 Weeks of Gestation: Construction of Reference Intervals Related to Gestational Age," (2001) <i>Ultrasound Obstet. Gynecol.</i> , 17:410-415, Parma, Italy	
		MAGANN et al., "Ultrasound Estimation of Amniotic Fluid Volume Using the Largest Vertical Pocket Containing Umbilical Cord: Measure To or Through Cord?," (2002) <i>Ultrasound Obstet. Gynecol.</i> , 20:464-467; Australia, Mississippi and South Carolina	
		MAGANN et al., "Ultrasound Estimate of Amniotic Fluid Volume: Color Doppler Overdiagnosis of Oligohydramnios," (2001) 98:1, 71-74, <i>Obstetrics & Gynecology</i> , Elsevier Science, Inc., South Carolina and Mississippi	

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	First Named Inventor	Vikram Chalana
	Art Unit	3732
	Examiner Name	--
	Sheet 3 of 4	Attorney Docket No.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/701,955
				Filing Date	November 5, 2003
				First Named Inventor	Vikram Chalana
				Art Unit	3732
				Examiner Name	--
Sheet	4	of	4	Attorney Docket Number	DXUC-1-1020

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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